

Media für cultivation of *E. coli*

- composition of our LB-Medium is as follows:

Table 1: composition of LB medium

Trypton/Pepton	10 g/L
Yeast extract	5 g/L
NaCl□	10 g/L
pH	7

- autoclave medium before using, use only under sterile conditions
 - cultivation of *E. coli* in LB medium in 15 mL falcons or 10 mL cultivation tubes (for precultures) and 100 mL-5L flasks either baffled or plain depending on which method is conducted
 - liquid cultures are cultivated at 37 °C, 30°C and 200 rpm in a shaking incubator
 - for selection of single clones, LB-agar plates are incubated at the above temperatures in a static incubator
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- LB-Agar: addition of 1.5% Agar (gives solid media for making streakouts of desired strains and also for plating out transformed cells)
 - appropriate antibiotics are added to the LB liquid medium or LB-Agar for selecting specifically generated strains of interest

Table 2: concentration of antibiotics used for selection

Supplement	Stock concentration	Final concentration
Ampicillin	100 mg mL ⁻¹ in ddH ₂ O	100 µg mL ⁻¹ or 50 µg mL ⁻¹
Kanamycin	50 mg mL ⁻¹ in ddH ₂ O	50 µg mL ⁻¹
Chloramphenicol	37 mg mL ⁻¹ in ddH ₂ O	37 µg mL ⁻¹
Streptomycin	50 mg mL ⁻¹ in ddH ₂ O	50 µg mL ⁻¹
Gentamycin	20 mg mL ⁻¹ in ddH ₂ O	20 µg mL ⁻¹